MTNC050426A1

B19 Canada:B05

Service Manual

Color Television

Simplified

CT-27HL15N

CT-27HL15UN

GN1M

Please file and use this manual together with Simplified manual for model CT-32HL15N , Order No. MTNC050309A1 and the main service manual for Model CT-32HL44J, Order No. MTNC040418C1. A complete parts list and schematics difference from Order No. MTNC050309A1 are included in this simplified service manual.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 Safety precautions

General guidelines

An isolation transformer should always be used during the servicing of a receiver whose chassis is not isolated from AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect the receiver from being damaged by accidental shorting that may occur during servicing.
When servicing, observe the original lead dress, especially in the high voltage circuit. Replace all damaged parts (also parts that show signs of overheating.)
Always replace protective devices, such as fish paper, isolation resistors and capacitors, and shields after servicing the receiver. Use only manufacturer's recommended rating for fuses, circuits breakers, etc.
High potentials are present when this receiver is operating. Operation of the receiver without the rear cover introduces danger for electrical shock. Servicing should not be performed by anyone who is not thoroughly familiar with the necessary precautions when servicing high voltage equipment.
Extreme care should be practiced when handling the picture tube. Rough handling may cause it to implode due to atmospheric pressure. (14.7 lbs per sq. in.). Do not nick or scratch the glass or subject it to any undue pressure. When handling, use safety goggles and heavy gloves for protection. Discharge the picture tube by shorting the anode to chassis ground (not to the cabinet or to other mounting hardware). When discharging connect cold ground (i.e. dag ground lead) to the anode with a well insulated wire or use a grounding probe.Avoid prolonged exposure at close range to unshielded areas of the picture tube to prevent exposure to x ray radiation.
The test picture tube used for servicing the chassis at the bench should incorporate safety glass and magnetic shielding. The safety glass provide shielding for the tube viewing area against x ray radiation as well as implosion. The magnetic shield limits the x ray radiation around the bell of the picture tube in addition to the restricting magnetic effects. When using a picture tube test jig for service, ensure that the jig is capable of handling 50kV without causing x ray radiation.
Before returning a serviced receiver to the owner, the service technician must thoroughly test the unit to ensure that is completely safe to operate. Do not use a line isolation transformer when testing.

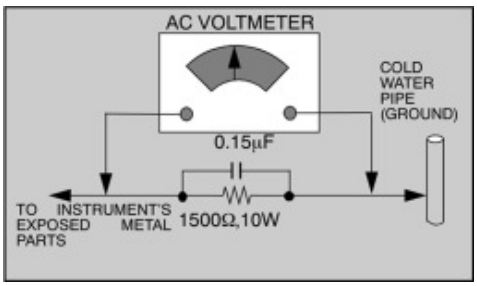
Leakage current cold check

Unplug the A.C. cord and connect a jumper between the two plug prongs.Measure the resistance between the jumpered AC plug and expose metallic parts such as screwheads, antenna terminals, control shafts, etc. If the exposed metallic part has a return path to the chassis, the reading should be between 240kΩ and 5.2MΩ. If the exposed metallic part does not have a return path to the chassis, the reading should be infinite.

Leakage current hot check

Plug the AC cord directly into the AC outlet. Do not use an isolation transformer during the check.
Connect a 1.5kΩ 10 watt resistor in parallel with a 0.15µF capacitor between an exposed metallic part and ground. Use earth ground, for example a water pipe.
Using a DVM with a 1000 ohms/volt sensitivity or higher, measure the AC potential across the resistor.
Repeat the procedure and measure the voltage present with all other exposed metallic parts.
Verify that any potential does not exceed 0.75 volt RMS. A leakage current tester (such a Simpson model 229, Sencore model PR57 or equivalent) may be used in the above procedure, in which case any current measure must not exceed 0.5 milliamp. If any measurement is out of the specified limits, there is a possibility of a shock hazard and the receiver must be repaired and rechecked before it is returned to the customer.

Hot check circuit



Insulation test

Connect an insulation tester between an exposed metallic part and A.C. line. Apply 2500VAC/60Hz for 1 second. Confirm that the current measurement is lower than 4.0mA. Repeat test with other metallic exposed parts.

X ray radiation

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WARNING

The potential source of x ray radiation in the TV set is in the high voltage section and the picture tube.

NOTE

It is important to use an accurate, calibrated high voltage meter.
Set the brightness, picture, sharpness and color controls to minimum.
Measure the high voltage. With a 480i or 1080i signal the high voltage should be 29.5kV ± 0.3kV. If the upper limit is out of tolerance, immediate service and correction is required to insure safe operation and to prevent the possibility of premature component failure.

Horizontal oscillator disable circuit test

This test must be performed as a final check before the receiver is returned to the customer. See horizontal oscillator disable circuit procedure check in this manual.'

2 Service notes

NOTE

These components are affixed with glue. Be careful not to break or damage any foil under the component or at the pins of the ICs when removing. Usually applying heat to the component for a short time while twisting with tweezers will break the component loose.

Leadless chip component (surface mount)

Chip components must be replaced with identical chips due to critical foil track spacing. There are no holes in the board to mount standard transistors or diodes. Some chips capacitor or resistor board solder pads may have holes through the board, however the hole diameter limits standard resistor replacement to 1/8 watt. Standard capacitor may also be limited for the same reason. It is recommended that identical components be used.
Chip resistor have a three digit numerical resistance code, 1st and 2nd significant digits and a multiplier. Example: 162 = 1600 or 1.6kΩ resistor, 0 = 0Ω (jumper).
Chip capacitors generally do not have the value indicated on the capacitor. The color of the component indicates the general range of the capacitance.
Chip transistors are identified by a two letter code. The first letter indicates the type and the second letter, the grade of transistor.
Chip diodes have a two letter identification code as per the code chart and are a dual diode pack with either common anode or common cathode. Check the parts list for correct diode number.

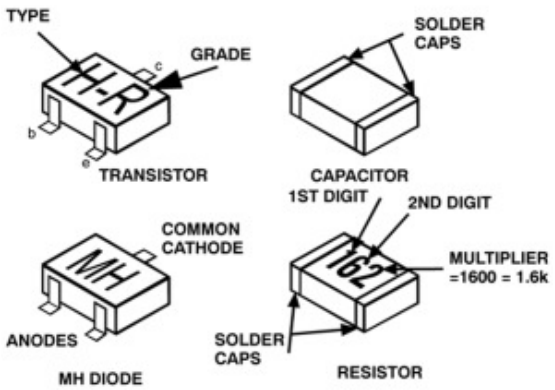
Component removal

1. Use solder wick to remove solder from component end caps or terminal.
2. Without pulling up, carefully twist the component with tweezers to break the adhesive.
3. Do not reuse removed leadless or chip components since they are subject to stress fracture during removal.

Chip component installation

1. Put a small amount of solder on the board soldering pads.
2. Hold the chip component against the soldering pads with tweezers or with a miniature alligator clip and apply heat to the pad area with a 30 watt iron until solder flows. Do not apply heat for more than 3 seconds.

Chip components



How to replace flat ic (required tools)

1. Remove the solder from all of the pins of a Flat IC by using a desolder braid

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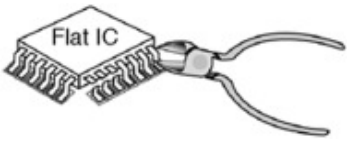
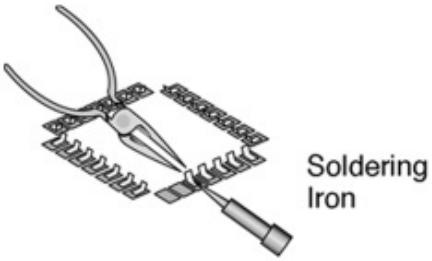
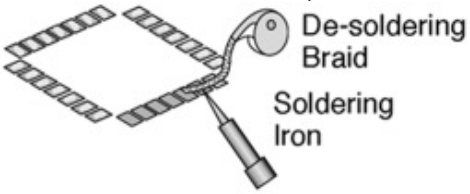


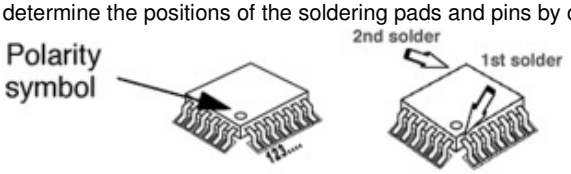
2. Put the iron wire under the pins of the Flat IC and pull it in the direction indicated while heating the pins using a soldering iron. A small awl can be used instead of the iron wire.



3. Remove the solder from all the pads of the Flat IC by using a de solder braid

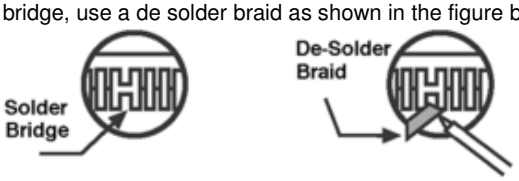


4. Position the new Flat IC in place (apply the pins of the Flat IC to the soldering pads where the pins need to be soldered). Properly determine the positions of the soldering pads and pins by correctly aligning the polarity symbol



5. Solder all pins to the soldering pads using a fine tipped soldering iron

6. Check with a magnifier for solder bridge between the pins or for dry joint between pins and soldering pads. To remove a solder bridge, use a de solder braid as shown in the figure below



IMPORTANT

To protect against possible damage to the solid state devices due to arching or static discharge, make certain that all ground wires and CRT DAG wire are securely connected.

CAUTION

The power supply circuit is above earth ground and the chassis cannot be polarized. Use an isolation transformer when servicing the receiver to avoid damage to the test equipment or to the chassis. Connect the test equipment to the proper ground (hot) or (cold) when servicing, or incorrect voltages will be measured.

WARNING

This receiver has been designed to meet or exceed applicable safety and x-ray radiation protection as specified by government agencies and independent testing laboratories.
To maintain original product safety design standards relative to x-ray radiation and shock and fire hazard, parts indicated with the symbol on the schematic must be replaced with identical parts. Order parts from the manufacturer's parts center using the parts numbers shown in this service manual, or provide the chassis number and the part reference number.
For optimum performance and reliability, all other parts should be replaced with components of identical specification.

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HORIZONTAL OSCILLATOR DISABLE CIRCUIT

This chassis employs a special circuit to protect against excessive high voltage and beam current. If, for any reason, the high voltage and beam current exceed a predetermined level this protective circuit activates and detunes the horizontal oscillator that limits the high voltage. The over-voltage protection circuit is not adjustable. However, if components indicated by the symbol on the schematic in either the horizontal sweep system or the over-voltage protection circuit itself are changed, the operation of the circuit should be checked using the following procedure:

Equipment needed to check the disabled circuit:

1. High voltage meter (0 ~ 50kV)
2. Variac or isolation transformer
3. D.C. current meter
4. Digital voltmeter

PREPARATION

1. Connect receiver to A.C. 120 Volts. Do not turn ON.
2. Connect HIGH VOLTAGE meter to 2nd anode (H.V. button).

NOTE

Use cold ground for negative lead.

3. Connect the ammeter serial from the flyback anode lead to the picture tube anode socket.

PROCEDURE

1. Apply a monoscope or white pattern.
2. Confirm that beam current is 2.0mA.
3. Adjust VR524 so that high voltage is 29.5kV ± 0.3kV.
4. Adjust VR538 so that digital meter reads 2.3 ± 0.05V
5. Confirm that high voltage protector (SOS) operates at 34.0kV or less by adjusting VR524.
6. Turn VR524 counter clockwise, turn tv on and apply a monoscope or white pattern.
7. Adjust VR524 so that high voltage meter reads 29.5 ± 0.3kV.
8. Once the adjustment is completed, apply a bond on VR524 and VR538. Confirm B+ 142V ± 6.0V with 120V A.C. applied.

NOTE

If high voltage is not within the specified limit the cause must be determined before the receiver is returned to the owner.

3 Receiver feature table

FEATURE/MODEL	CT-27HL15N/UN
CHASSIS	DP435
MICRO	256K
MENU LANGUAGE	ENG/SPAN/FR
CLOSE CAPTION	X
V-CHIP (USA/CANADA)	X
VIDEO INPUT SKIP	X
CHANNEL COUNT	181
REMOTE CONTROL (W/LIGHT)	EUR7613ZC0
CRT SUPPLIER	SAMSUNG
FAMILY	GN1M
COMB FILTER	3D-Y/C
HEC/VEC (X=BOTH)	X
VM	X (SELECTABLE)
V/A NORM (X=BOTH)	X
COLOR TEMP	X
AI PICTURE	X
PRESET/INPUT LABELING	X
VIDEO PICTURE MEMORY	X
HDTV MONITOR	1080i
PROGRESSIVE SCAN DOUBLER	X
EDTV MONITOR	480p
STEREO/SAP WITH dbx NR	X

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STEREO WATTS PER CHANNEL	10W
No. OF SPEAKERS	2
BASS/BALANCE/TREBLE CONTROL	X
AI SOUND	X
SURROUND	X
SPATIALIZER/BBE	BBE
A/V IN (REAR/FRONT)	4(3/1)
PROGRAM OUT	X
AUDIO OUT (FAO / VAO)	BOTH
COMPONENT INPUT (Y, Pb, Pr)	2
S-VIDEO INPUT (REAR/FRONT)	2/1
DIGITAL INTERFACE	HDMI
WEIGHT (KG/LB)	43.0 KG/ 94.8LBS
DIMENSIONS (W/D/H) mm / in	780x508x572

Note:

Specifications are subject to change without notice or obligation. Dimensions and weights are approximate.

4 Board description table

BOARD	CT-27HL15N/UN	DESCRIPTION
A-BOARD	TNP2AH071AC	MAIN CHASSIS
D-BOARD	TNP2AH073AF	HIGH VOLTAGE AND DEFLECTION
DG-BOARD	TNP2AA216	DIGITAL VIDEO
G-BOARD	TNP2AA222	FRONT A/V
H-BOARD	TNP2AA174AB	REAR A/V
L-BOARD	TNP2AA232AC	CRT BOARD

NOTE

When ordering a replacement board assembly, append an “S” to the board number.

EXAMPLE

To order the A Board, the replacement board is TNP2AH071ACS.

NOTE:

The DG-Board is non-serviceable. If this board is defective, replace it with a new board.

5 TV Location of controls

5.1 CT-27HL15N/UN

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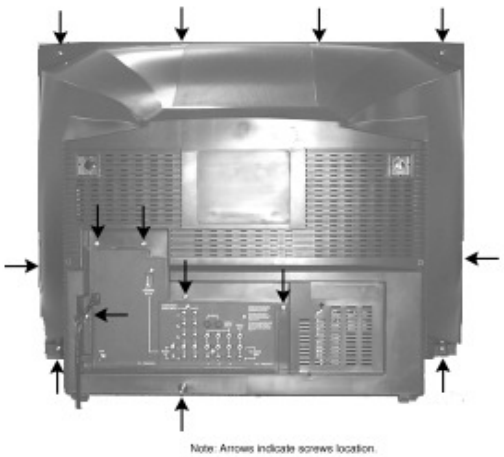
Quick reference control operation	
1	**Power** - Press to turn ON or OFF.
2	**Volume** - Press to adjust sound level, or to adjust audio menus, video menus, and select operating features when menus are displayed
3	**Channel** - Press to select programmed channels. Press to highlight desired features when menus are displayed. Also use to select cable converter box channels after programming remote control infra-red codes (the TV/AUX/CABLE switch must be set in CABLE position).
4	**Action** - Press to display main menu and access on screen feature and adjustment menus.
5	**TV/Video** - Press to select TV or one of the video inputs

6 Back cover removal

CT-27HL15N/UN



Note: Arrows indicate screws location.

7 Chassis service adjustment

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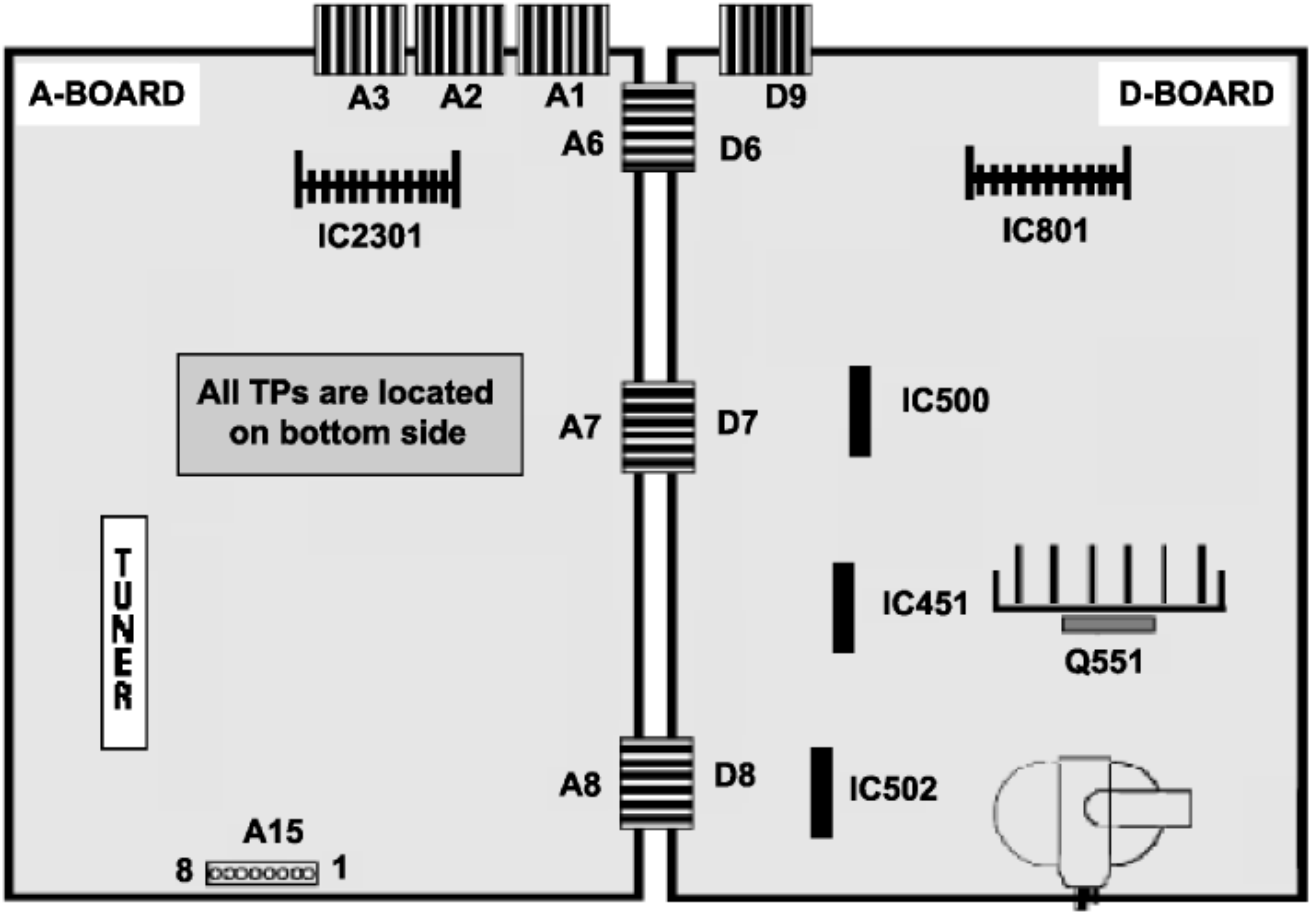
procedures

All service adjustments are factory preset and should not require change unless controls and/or associated components are replaced.



140.0_V B+ voltage check

1. Set the BRIGHT and PICTURE to minimum by using the PICTURE menu.
2. Connect the DVM on TPD50 (D-Board by and cold ground
3. Confirm that B+ voltage is 142V ± 6.0V. This voltage supplies B+ to the horizontal output and flyback circuits.

Source voltage chart

120V AC line input. Set the BRIGHT and the PICTURE to minimum by using the PICTURE menu. Use cold or hot ground for the (-) lead of the DVM as needed

A-BOARD	VOLTAGE
STBY 7V (BY IC006) A-Board TPA9	7.5V ± 0.75V
MAIN 9V (BY IC006) A-Board TPA90	9.0V ± 0.5V
MAIN 5V (BY IC2856) A-Board TPA15	5.2V ± 0.3V
GC 2.5V (BY IC2856) A-Board TPA25	2.6V ± 0.2V
STBY 3.3V (BY A13 CONNECTOR) A-Board TPA16	3.3V ± 0.2V
MAIN 3.3V (BY IC 2856) A-Board TPA33	3.3V ± 0.2V

D-BOARD	VOLTAGE
+B2 (BY D14 CONNECTOR) D-Board TPD50	142.0 ± 6.0V
30V (BY IC805) D-Board TPD19	33.5 ± 2.0V
15V (BY IC802) D-Board TPD7	14.5 + 1.5V -1.0
-15V (BY IC805) D-Board TPD6	-15.5V ± 1.5V
SOUND+ (BY D6 CONNECTOR) D-Board TPD4	17.2V + 1.5V -1.0
SOUND- (BY D6 CONNECTOR) D-Board TPD53	-18.0V ± 1.5V
210V (BY IC503) D-Board TPD34	211.0V ± 4.0V
MAIN 12V (BY D14 CONNECTOR) D-Board TPD22	12V ± 0.5V

High voltage check

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1. Select an active TV channel and confirm that horizontal is in sync.
2. Adjust BRIGHTNESS and PICTURE using PICTURE icon menu so video just disappears.
3. Confirm B+ 142 ± 6.0V is within limit.
4. Using a high voltage meter confirm that the high voltage is 29.5kV ± 0.3kV.

7.1 Service adjustment default values for service items

REGISTER	DESCRIPTION	FORMAT	
		4:3	16:9
MTSIN	INPUT LEVEL	22	N/A
SEPAL	LOW LEVEL SEPARATION	07	N/A
SEPAH	HIGH LEVEL SEPARATION	22	N/A
CLOCK	CLOCK	131	N/A
COLOR	COLOR	1F	N/A
TINT	TINT	7D	N/A
BRIGH	SUB-BRIGHTNESS	09 53	N/A
CONT	SUB-CONTRAST	02 A0	N/A
B-Y_G	MAGENTA TINT ADJ	3D	N/A
CUT G	GREEN CUT-OFF	01 15	N/A
CUT R	RED CUT-OFF	01 1A	N/A
CUT B	BLUE CUT-OFF	01 17	N/A
BRT	BRIGHT	09 53	N/A
R DR	RED DRIVE	90	N/A
B DR	BLUE DRIVE	95	N/A
R-Y_A	R-Y_A	80	N/A
HLIN	HORIZONTAL LINEARITY	80	N/A
HPOS	HORIZONTAL POSITIONING	03 42	N/A
HWID	HORIZONTAL WIDTH	95	N/A
PCC	PINCUSHION CORRECTION	D3	BD
PCCHG	PINCUSHION HIGH	38	43
PCCLG	PINCUSHION LOW	39	3F
PCCHS	PINCUSHION HIGH	05	05
PCCLS	PINCUSHION LOW	05	05
TOPG	TOP CORNER PINCUSHION	58	58
BTMG	BOTTOM CORNER PINCUSHION	58	58
TOPSL	TOP CORNER PINCUSHION SLICE LEVEL	03	03
BTMSL	BOTTOM CORNER PINCUSHION SLICE LEVEL	03	03
TRAP	TRAPEZOID	80	80
PARA	PARALLELOGRAM	10	10
SIDE	E-W PINCUSHION ADJUSTMENT	16	16
HTRAP	HORIZONTAL TRAPEZOID	20	20
VRAS	VERTICAL POSITION	CA	D6
VEAMP	VERTICAL SIZE	01 0F	00 56
V-C	VERTICAL LINEARITY	70	72
V-S	VERTICAL S CORRECTION	56	58
HDAFS	HORIZONTAL DAF PHASE	00 A4	N/A
VTOP	VTOP	00 C4	00 B0
BDAC	BDAC	73	N/A
INPIN	INPIN	20	20
MOIRE	MOIRE	80	80
ID	ID	32	32

NOTE:

The above table shows the default values for the service items, this values may vary depending on the serviced TV.

Important Note:

When changing “ID” register, message “Unplug AC to activate” will appear on the screen and the set must be unplugged.

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8 Identification of components

8.1 TV with back cover removed

TV View with back cover removed.

8.2 G Board

G-Board View

9 Reference of PDF links color

DESCRIPTION OF PDF LINK COLORS	
TYPE	DESTINATION
SCHEMATIC	
YELLOW ON IC	IC ON PCB
YELLOW ON CONNECTOR	CONNECTOR ON PCB
YELLOW ON SCHEMATIC	PCB
CYAN	WAVEFORM
GREEN ON SIDE	SCHEMATIC CONTINUED
GREEN ON CONNECTOR	CONNECTOR CONNECTION
BLUE ON IC	VOLTAGE
PCB	
BLUE ON IC	IC ON SCHEMATIC
BLUE ON CONNECTOR	CONNECTOR ON SCHEMATIC
BLUE ON PCB	SCHEMATIC
GREEN ON SIDE	PCB CONTINUED
BLOCK DIAGRAMS	
GREEN ON IC	IC ON SCHEMATIC
GREEN ON SIDE	BLOCK DIAGRAM CONTINUED

10 Conductors View

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10.1 G-Board Printed Circuit

11 Schematic Diagrams

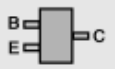
11.1 Schematic notes in english

Notes:

IMPORTANT SAFETY NOTICE

THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES THAT ARE IMPORTANT FOR PROTECTION FROM X-RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURERS SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS DESIGNATED WITH A ⚠ IN THE SCHEMATIC.

CHIP TRANSISTOR LEAD DESIGNATION



SCHEMATIC NOTES

1. Resistors are carbon 1/4W unless noted otherwise.
2. Capacitors are ceramic 50V unless noted otherwise.
3. Coil value notes is inductance in μH.
4. Test point indicated by ; Test point but no pin .
5. Components indicated with ⚠ are critical parts and replacement should be made with manufacture specified replacement parts only.
6. ▬ (**BOLD LINE**) indicates the route of B+ supply.
7. The schematic diagrams are current at the time of printing and are subject to change without notice.
8. Ground symbol ⏚ indicates **HOT GROUND CONNECTION**; indicates COLD GROUND.

NOTE: All other component symbols are used for engineering design purposes.

VOLTAGE MEASUREMENTS

1. Voltage measurement:
   - AC input to the Receiver is 120V. NTSC (HD, 1125i & 525P when applicable) signal generator is connected to the antenna of the Receiver. (Color bar pattern of 100 IRE white and 7.5 IRE black.)
   - All Picture and Audio adjustments are set to Normalize.
     TV ANT/CABLE - (Set-Up Menu) in TV/ANT Mode
     Volume - Min.
     TV/Video SW - TV position
     Audio Mode - Stereo
   - Voltage readings are nominal and may vary ±10% on active devices. Some voltage reading will vary with signal strength and picture content.
   - Supply voltages are nominal.
2. Ground symbol ⏚ indicates ground lead connection of meter.
   Incorrect ground connection will result in erroneous readings.

*CAUTION: **Incorrect ground connection of the test equipment will result in erroneous readings.***

WAVEFORM MEASUREMENTS

1. ③ indicates waveform measurement. (Measurement can be taken at the best accessible location in common to the indicated point.)
2. Taken with an NTSC signal generator connected to the antenna terminal. (NTSC color bar pattern of 8 bars of EIA colors, 100 IRE white and 7.5 IRE black.)
3. Customer Controls (Picture/Audio Menu) are set to Normalize. Volume is set to "MIN".
4. All video and color waveforms are taken with a wideband scope and a probe with low capacitance (10 to 1). Shape and peak altitudes may vary depending on the type of Oscilloscope used and its settings.
5. Ground symbol ⏚ shown on waveform number indicates (Hot) ground lead connection of the Oscilloscope.

CAUTION: Incorrect ground connection of the test equipment will result in erroneous readings.

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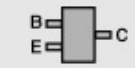
11.2 Schematic notes in spanish

Notas

NOTA DE SEGURIDAD

LOS DIAGRAMAS ELÉCTRICOS INCLUYEN CARACTERÍSTICAS ESPECIALES MUY IMPORTANTES PARA LA PROTECCIÓN CONTRA RAYOS-X, QUEMADURAS Y DESCARGAS ELÉCTRICAS. CUANDO SE DE SERVICIO ES IMPORTANTE USAR PARA REEMPLAZO DE COMPONENTES CRITICOS, SOLO PARTES ESPECIFICADAS POR EL FABRICANTES. LOS COMPONENTES CRITICOS ESTAN SEÑALADOS EN LOS DIAGRAMAS POR EL SIMBOLO ⚠.

IDENTIFICACIÓN DE TERMINALES PARA TRANSISTORES EN *CHIP*



NOTAS DE LOS DIAGRAMAS

1. Las Resistencias son de Carbón de 1/4W, a menos que se indique otra característica.
2. Los Capacitores son de Cerámica para 50V, a menos que se indique otra característica.
3. El valor indicado de las Bobinas es la inductancia expresada en µH.
4. Los puntos de prueba en la terminal de algún componente son indicados por ❙ Los puntos de prueba fuera de los componentes se indican con ❙.
5. Los componentes señalados con el símbolo ⚠ son considerados componentes críticos y deben ser reemplazados sólo con las partes especificadas por el fabricante.
6. ▬ (**LINEA GRUESA**) indica las líneas de alimentación de los Voltajes B+.
7. Los diagramas eléctricos están sujetos a cambio sin previo aviso.
8. El símbolo ⏚ indica que es una conexión a **Tierra Caliente** y el símbolo ⏚ indica conexión a **Tierra Fría**.

NOTA: Los demas simbolos de componentes incluidos son usados con fines de diseño.

MEDICIÓN DE VOLTAJES

1. Medición de voltaje:
   - El voltaje de entrada al Receptor es de 120V de Corriente Alterna. Un generador de patrones con formato NTSC se conecta a la entrada de la antena. (Patrón de Barras de Colores con 100 IREs para el Blanco y 7.5 IREs para el Negro.)
   - Los ajustes de los Menus Picture y Audio se normalizan.
     En el Menú Set-Up, en la opción ANTENA, se selecciona el modo de CABLE.
     El nivel de Volumen se minimiza.
     De los modos TV y Video, seleccionar el modo TV.
     Seleccionar modo Estereo del Audio.
   - Las mediciones de los voltajes son nominales y pueden variar hasta 10% en componentes en funcionamiento. Las lecturas de los voltajes pueden variar por la potencia de la señal y el contenido de la imagen.
   - Las fuentes de voltajes son nominales.
2. El símbolo ⏚ indica el tipo de tierra que se utiliza en la conexión del medidor.

PRECAUCION: Si no se utiliza la conexión a la tierra adecuada, se obtendrán mediciones equivocadas y podría dañar el equipo de medición.

MEDICIÓN DE FORMAS DE ONDA

1. Un símbolo como ③ indica el punto para medir una señal. (La medición puede hacerse en el punto con mayor accesibilidad, siempre que sea común al indicado.)
2. Se midieron utilizando un generador con formato NTSC conectado a la terminal de la antena. (Patrón de 8 Barras de Colores EAI, formato NTSC de 100 IREs para el Blanco y 7.5 IREs para el Negro.)
3. Los ajustes de usuario de los Menus PICTURE y AUDIO se normalizaron. Posteriormente el nivel de volumen se ajusta al mínimo.
4. Las formas de onda de Video y Color fueron tomadas con un osciloscopio de banda alta y con un punta de prueba de baja capacitancia (10 a 1). La forma y amplitud de las ondas puede variar según el tipo de osciloscopio que se utilice y sus características.
5. El símbolo de tierra ⏚ que aparece junto al número de la forma de onda, indica que se utiliza conexión a **Tierra Caliente** en el extremo negativo de la punta de prueba.

PRECAUCION: Si no se utiliza la conexión a la tierra adecuada, se obtendrán mediciones equivocadas y podría dañar el equipo de medición.

11.3 A-Board Schematic 1 of 3

11.4 A-Board Schematic 2 of 3

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11.5 A-Board Schematic 3 of 3

11.6 D-Board Schematic 1 of 4

11.7 D-Board Schematic 2 of 4

11.8 D-Board Schematic 3 of 4

11.9 D-Board Schematic 4 of 4

11.10 G-Board Schematic

11.11 L-Board Schematic

12 Location Parts

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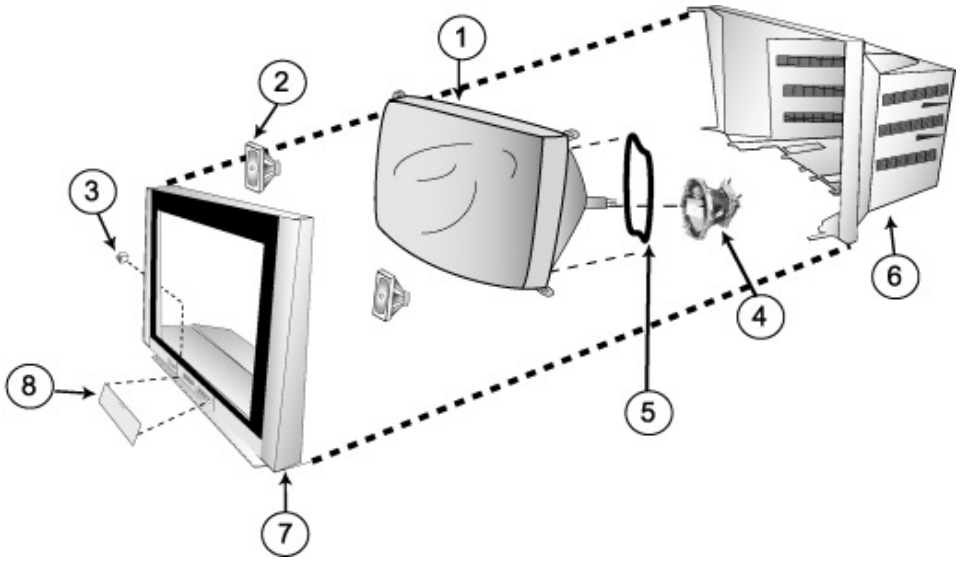

13 Parts list

13.1 Description of abbreviations guide

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use manufacturer's specified parts.

Abbreviation of part name and description

1. Resistor
Example :
ERD25TJ104 **C** 100KΩ, **J**, 1/4W
Type Allowance

Type	Allowance
C : Carbon	F : ± 1%
F : Fuse	G : ± 2%
M : Metal Oxide Metal Film	J : ± 5% K : ± 10%
S : Solid	M : ± 20%
W : Wire Wound	

2. Capacitor
Example :
ECKF1H103ZF **C** 0.01µF, **Z**, 50V
Type Allowance

Type	Allowance
C : Carbon	C : ± 0.25pF
E : Electrolytic	D : ± 0.5pF
P : Polyester Polypropylene	F : ± 1pF G : ± 3%
T : Tantalum	J : ± 5%
	K : ± 10%
	L : ± 15%
	M : ± 20%
	P : ± 100%, -0%
	Z : ± 80%, -20%

13.2 Parts list

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Ref. No.	Part No.	Part Name & Description	Remarks
		CAPACITORS	
C037	ECA0JM222B	CAP E 2200UF-6.3V	
C038	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C047	ECA1HM330B	CAP E 33UF-50V	
C054	ECA1HM4R7B	CAP E 4.7UF-50V	
C055	ECA1HM330B	CAP E 33UF-50V	
C056	ECA1VM471B	CAP E 470UF-35V	
C059	ECJ2VC1H101J	CAP C 100PF-J-50V	
C060	ECJ2VC1H101J	CAP C 100PF-J-50V	
C061	ECA1HMR22B	CAP E .22UF-50V	
C062	ECA1HM2R2B	CAP E 2.2UF-50V	
C096	ECJ2VC1H120J	CAP C 12PF-J-50V	
C097	ECJ2VC1H390J	CAP C 39PF-J-50V	
C451	ECA1EM102E	CAP E 1000UF-25V	
C452	ECA1EM102E	CAP E 1000UF-25V	
C453	ECA1HM101B	CAP E 100UF-50V	
C454	ECQV1H224JL3	CAP P .22UF-J-50V	
C455	ECA1CM221B	CAP E 10UF-16V	
C457	ECQB1H471JF3	CAP P 470PF-J-50V	
C458	ECQV1H105JL3	CAP P 1.0UF-J-50V	
C460	ECQE2224KF3	CAP P .22UF-K-200V	
C461	ECA1HM010B	CAP E 1UF-50V	
C462	ECA0JM221B	CAP E 220UF-6.3V	
C463	ECA1VM470B	CAP E 47UF-35V	
C467	ECQV1H224JL3	CAP P .22UF-J-50V	
C472	ECA1HM4R7B	CAP E 4.7UF-50V	
C507	ECEA2CNR47SB	CAP E .47UF-160V	
C508	ECQB1H104JF3	CAP P .10UF-J-50V	
C509	ECKR3A222KBP	CAP C .0022UF-K-1KV	
C510	ECWH20332JVY	CAP P 3300PF-J-2KV	
C511	ECWH20472JVB	CAP P 4700PF-J-2KV	
C512	ECA1HMR47B	CAP E .47UF-50V	
C514	ECQM4472JZW	CAP P 4700PF-J-400V	
C515	ECKR3A222KBP	CAP C .0022UF-K-1KV	
C516	ECQB1H223JF3	CAP P .022UF-J-50V	
C517	ECJ2VG1H151J	CAP C 150-J-50V	
C518	ECKW3D681KBR	CAP C 680PF-K-2KV	
C519	ECKW3D681KBP	CAP C 680PF-K-2KV	
C520	ECKW3D222KBP	CAP C 2200UF-K-2KV	
C521	ECWF2334JSR	CAP M .33UF-J-200V	
C522	ECWF4393RJB	CAP P .039UF-J-400V	
C523	ECQB1H104JF3	CAP P .10UF-J-50V	
C524	ECQE1224KF3	CAP P .22UF-K-100V	
C525	EEUNA1E220B	CAP E 22UF-25V	
C526	ECQB1H104JF3	CAP P .10UF-J-50V	
C527	ECQV1H224JL3	CAP P .22UF-J-50V	
C529	ECQB1H473JF3	CAP P .047UF-J-50V	
C532	ECQB1H104JF3	CAP P .10UF-J-50V	
C534	ECQB1H103JF3	CAP P .01UF-J-50V	
C535	ECQV1H104JL3	CAP P .10UF-J-50V	
C536	ECEA1EN100UB	CAP E 10UF-25V	
C548	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C553	ECA1CM101B	CAP E 100UF-16V	
C554	ECA1VM101B	CAP E 100UF-35V	
C561	ECA2EHG470E	CAP E 47UF-250V	
C562	ECKR3A561KBP	CAP C 560PF-K-1KV	
C563	EEUEB2E330E	CAP E 33UF-100V	
C564	ECA1VM470B	CAP E 47UF-35V	

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C566	ECA1VM470B	CAP E 47UF-35V	
C567	EEUED2C101E	CAP E 100UF-100V	
C571	ECKRHT332KB	CAP C 3300PF-K-	
C574	ECA1HM100B	CAP E 10UF-50V	
C575	ECA1CM101B	CAP E 100UF-16V	
C576	ECA1CM101B	CAP E 100UF-16V	
C577	ECQE6473RKF	CAP P .047UF-K-600V	
C578	ECKW3D681KBR	CAP C 680PF-K-2KV	
C581	ECQB1H104JF3	CAP P .10UF-J-50V	
C582	ECQB1H104JF3	CAP P .10UF-J-50V	
C589	ECQE6184JFB	CAP P .18UF-J-600V	
C590	ECJ2VB1H471K	CAP C 470PF-K-50V	
C713	ECKR3A222KBP	CAP C .0022UF-K-1KV	
C714	ECQE2103KF3	CAP P .010UF-K-200V	
C801	ECQU2A224MLA	CAP P .22UF-M-250V	⚠
C802	ECQU2A224MLA	CAP P .22UF-M-250V	⚠
C803	ECQU2A224MLA	CAP P .22UF-M-250V	⚠
C804	ECQU2A224MLA	CAP P .22UF-M-250V	⚠
C806	ECQU2A103MLA	CAP P .010UF-M-250V	⚠
C807	ECKCNA222MEB	CAP C 2200PF-M-125V	⚠
C808	ECKCNA222MEB	CAP C 2200PF-M-125V	⚠
C809	ECQB1H471JF3	CAP P 470PF-J-50V	
C810	EETHC2D102J	CAP E 1000UF-200V	
C811	ECA1HM100B	CAP E 10UF-50V	
C812	ECA1CM471B	CAP E 470UF-16V	
C813	ECA1HM010B	CAP E 1UF-50V	
C815	EEUFC1E222E	CAP E 2200UF-25V	
C821	ECKW3D332KBP	CAP C 3300PF-K-2KV	
C822	ECQB1H102JF3	CAP P 1000PF-J-50V	
C823	ECQB1H471JF3	CAP P 470PF-J-50V	
C824	ECKW3D102KBP	CAP C 1000PF-K-2KV	
C825	ECA1HHG470B	CAP E 47UF-50V	
C826	ECJ2VF1H104Z	CAP C .1UF-Z-50V	
C827	ECA1HHG010B	CAP E 1UF-50V	
C828	ECKR3A331KBP	CAP C 330PF-K-1KVDC	
C830	EC0S2DA471BB	CAP E 470UF-200V	
C831	ECKW3D102KBP	CAP C 1000PF-K-2KV	
C834	EEUFC1H222E	CAP E 2200UF-50V	
C835	ECA2EM101E	CAP E 100UF-250V	
C836	ECKR3A151KBP	CAP C 150PF-K-1KV	
C840	EEUFC1E222E	CAP E 2200UF-25V	
C841	ECA1VHG222E	CAP E 2200UF-35V	
C842	ECKR3A331KBP	CAP C 330PF-K-1KVDC	
C843	ECA1VHG222E	CAP E 2200UF-35V	
C844	ECKR3A471KBP	CAP C 470PF-K-1KV	
C846	ECEA1CN101UB	CAP E 100UF-16V	
C852	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C855	EEUFC1A471B	CAP E 470UF-10V	
C857	ECA1HM471E	CAP E 470UF-50V	
C858	ECA1CM101B	CAP E 100UF-16V	
C864	ECEA1CN101UB	CAP E 100UF-16V	
C867	ECQM4103RJZ	CAP P .01UF-J-400V	
C871	ECA1CM102B	CAP E 1000UF-16V	
C875	ECQB1H473JF3	CAP P .047UF-J-50V	
C881	ECKR3A471KBP	CAP C 470PF-K-1KV	
C882	ECA1VHG222E	CAP E 2200UF-35V	
C901	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C902	ECA1CM101B	CAP E 100UF-16V	

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C904	ECA1CM101B	CAP E 100UF-16V	
C906	ECA1CM101B	CAP E 100UF-16V	
C907	ECA2EM220E	CAP E 22UF-250V	
C908	ECQE2103KF3	CAP P .010UF-K-200V	
C909	ECA1CM101B	CAP E 100UF-16V	
C910	ECA2CM100B	CAP E 10UF-160V	
C911	ECQE2103KF3	CAP P .010UF-K-200V	
C1051	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C1052	ECEA1CKA470B	CAP E 47UF-16V	
C1401	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C1402	ECJ2VF1C104Z	CAP C .1UF-Z-16V	
C1403	ECA1VM470B	CAP E 47UF-35V	
C1501	ECA1VM470B	CAP E 47UF-35V	
C1502	ECQB1H103JF3	CAP P .01UF-J-50V	
C1505	ECQB1H103JF3	CAP P .01UF-J-50V	
C1506	ECQB1H223JF3	CAP P .022UF-J-50V	
C1507	ECQB1H223JF3	CAP P .022UF-J-50V	
C1522	ECA1VM101B	CAP E 100UF-35V	
C1523	ECA1VM470B	CAP E 47UF-35V	
C1526	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C1528	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C1535	ECA1HM100B	CAP E 10UF-50V	
C1557	ECQB1H102JF3	CAP P 1000PF-J-50V	
C1558	ECJ2VC1H680J	CAP C 68PF-J-50V	
C1559	ECQB1H102JF3	CAP P 1000PF-J-50V	
C1570	ECA1VM470B	CAP E 47UF-35V	
C2202	ECEA1HKA2R2B	CAP E 2.2UF-50V	
C2203	ECEA1HKA4R7B	CAP E 4.7UF-50V	
C2204	TAP106K016CF	CAP T 10MF-16V	
C2205	ECEA1HKA010B	CAP E 1.0UF-50V	
C2206	ECQB1H223JF3	CAP P .022UF-J-50V	
C2207	TAP335K016CF	CAP T 3.3 MF-16V	
C2208	ECJ2VB1C104K	CAP C .1UF-K-16V	
C2209	ECJ2VB1C104K	CAP C .1UF-K-16V	
C2210	ECJ2VB1C104K	CAP C .1UF-K-16V	
C2211	ECEA1HKA100B	CAP E 1UF-50V	
C2212	ECQB1H473JF3	CAP P .047UF-J-50V	
C2215	ECEA1CKA101B	CAP E 100UF-16V	
C2218	ECEA1HKAR47B	CAP E .47UF-50V	
C2301	ECJ2VF1C474Z	CAP C .47UF-Z-16V	
C2302	ECJ2VB1H561K	CAP C 560PF-K-50V	
C2303	ECJ2VB1H332K	CAP C .0033UF-K-50V	
C2304	ECJ2VB1H332K	CAP C .0033UF-K-50V	
C2305	ECJ2VF1C474Z	CAP C .47UF-Z-16V	
C2306	ECJ2VB1H561K	CAP C 560PF-K-50V	
C2307	ECJ2VB1H332K	CAP C .0033UF-K-50V	
C2308	ECJ2VB1H332K	CAP C .0033UF-K-50V	
C2310	ECJ2VF1H104Z	CAP C .1UF-Z-50V	
C2312	ECA1VM101B	CAP E 100UF-35V	
C2316	ECJ2VF1H104Z	CAP C .1UF-Z-50V	
C2317	ECJ2VF1H104Z	CAP C .1UF-Z-50V	
C2319	ECJ2VC1H330J	CAP C 33PF-J-50V	
C2322	ECJ2VF1C474Z	CAP C .47UF-Z-16V	
C2324	ECJ2VF1C474Z	CAP C .47UF-Z-16V	
C2326	ECJ2VF1H104Z	CAP C .1UF-Z-50V	
C2327	ECA1HM010B	CAP E 1UF-50V	
C2328	ECA1EM101B	CAP E 100UF-25V	
C2329	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C2331	ECA1EM101B	CAP E 100UF-25V	

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C2332	ECJ2VB1H472K	CAP C .0047UF-K-50V	
C2333	ECJ2VB1H472K	CAP C .0047UF-K-50V	
C2350	ECQV1H105JL3	CAP P 1.0UF-J-50V	
C2351	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C2352	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C2353	ECQV1H105JL3	CAP P 1.0UF-J-50V	
C2354	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C2355	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C2356	ECA1HM4R7B	CAP E 4.7UF-50V	
C2357	ECJ2VF1H104Z	CAP C .1UF-Z-50V	
C2358	ECJ2VF1H224Z	CAP C .22UF-Z-50V	
C2361	ECJ2VF1H224Z	CAP C .22UF-Z-50V	
C2364	ECA1HM220B	CAP E 22UF-50V	
C2365	ECJ2VF1H224Z	CAP C .22UF-Z-50V	
C2366	ECJ2VF1H224Z	CAP C .22UF-Z-50V	
C2370	ECA1CM101B	CAP E 100UF-16V	
C2371	ECA1CM101B	CAP E 100UF-16V	
C2372	ECEA1CN100UB	CAP E 10UF-16V	
C2373	ECA1HM100B	CAP E 10UF-50V	
C2374	ECA1HM100B	CAP E 10UF-50V	
C2375	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2376	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2377	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2378	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2379	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C2380	ECEA1CN100UB	CAP E 10UF-16V	
C2387	EEUFC1E222E	CAP E 2200UF-25V	
C2390	EEUFC1E222E	CAP E 2200UF-25V	
C2451	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2452	ECJ2VB1H472K	CAP C .0047UF-K-50V	
C2453	ECJ2VB1H223K	CAP C .022UF-K-50V	
C2454	ECJ2VB1H332K	CAP C .0033UF-K-50V	
C2455	ECJ2FB1C684K	CAP C .68UF-Z-16C	
C2456	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2457	ECJ2VB1C104K	CAP C .1UF-K-16V	
C2458	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2459	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2460	ECJ2VB1H103K	CAP C .01UF-K-50V	
C2461	ECA1CM221B	CAP E 10UF-16V	
C2462	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2463	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2464	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2465	ECJ2VB1C104K	CAP C .1UF-K-16V	
C2466	ECJ2FB1C684K	CAP C .68UF-Z-16C	
C2467	ECJ2VB1H332K	CAP C .0033UF-K-50V	
C2468	ECJ2VB1H223K	CAP C .022UF-K-50V	
C2469	ECJ2VB1H472K	CAP C .0047UF-K-50V	
C2470	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2471	ECA1CM471B	CAP E 470UF-16V	
C2851	ECA1EM471B	CAP E 470UF-25V	
C2852	ECA1CM221B	CAP E 10UF-16V	
C2855	ECA1VM221B	CAP E 220UF-35V	
C2857	EEUFC1C471B	CAP E 470UF-16V	
C2859	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C2861	EEUFC1A471B	CAP E 470UF-10V	
C2862	ECA1HM471E	CAP E 470UF-50V	
C2865	ECA1EM221B	CAP E 220UF-25V	
C2867	EEUFC1A471B	CAP E 470UF-10V	
C2868	ECA0JM222B	CAP E 2200UF-6.3V	

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C2869	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C2870	ECA1EM221B	CAP E 220UF-25V	
C2872	EEUFC1A471B	CAP E 470UF-10V	
C2874	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C2881	ECJ2VB1H103K	CAP C .01UF-K-50V	
C2882	ECJ2VB1H103K	CAP C .01UF-K-50V	
C3331	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3332	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3333	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3334	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3335	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3336	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3337	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3338	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3339	ECJ2VB1H103K	CAP C .01UF-K-50V	
C3340	ECJ2YB1A105K	CAP C 1.0UF-K-125V	
C3341	ECJ2YB1A105K	CAP C 1.0UF-K-125V	
C3342	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3343	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3344	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3345	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3346	ECJ2VB1H103K	CAP C .01UF-K-50V	
C3347	ECJ2YB1A105K	CAP C 1.0UF-K-125V	
C3348	ECJ2YB1A105K	CAP C 1.0UF-K-125V	
C3349	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3350	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3351	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3352	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3353	ECJ2YB1A105K	CAP C 1.0UF-K-125V	
C3354	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3355	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3357	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3358	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3359	ECA1EM471E	CAP E 470UF-25V	
C3360	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3361	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3362	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3363	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3364	ECJ2YB1A105K	CAP C 1.0UF-K-125V	
C3365	ECJ2YB1A105K	CAP C 1.0UF-K-125V	
C3366	ECJ2YB1A105K	CAP C 1.0UF-K-125V	
C3367	ECJ2YB1A105K	CAP C 1.0UF-K-125V	
C3368	ECJ2YB1A105K	CAP C 1.0UF-K-125V	
C3369	ECJ2YB1A105K	CAP C 1.0UF-K-125V	
C3401	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3402	ECJ2VB1H152K	CAP C .0015UF-K-50V	
C3405	ECA1HM010B	CAP E 1UF-50V	
C3406	ECA1HM010B	CAP E 1UF-50V	
C3801	ECQE2104KFW	CAP P .10UF-K-200V	
C3802	ECQE2104KFW	CAP P .10UF-K-200V	
C3803	ECQE2104KFW	CAP P .10UF-K-200V	
C3807	ECA2EM470E	CAP E 47UF-250V	
C3808	ECA2EM470E	CAP E 47UF-250V	
C3809	ECA2EM101E	CAP E 100UF-250V	
C3810	ECA2EM101E	CAP E 100UF-250V	
C3811	ECKC3D332KBN	CAP C 3300PF-K-2KV	
C456A	ECJ2VB1H472K	CAP C .0047UF-K-50V	
C468A	ECJ2VB1H331K	CAP C 330PF-K-50V	
C469A	ECJ2FB1H104K	CAP C .1UF-K-50V	

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C502A	ECJ2VF1H104Z	CAP C .1UF-Z-50V	
C503A	ECJ2VB1H102K	CAP C .001UF-K-50V	
CF803	D4DDF1R50001	DIODE	⚠
		DIODES	
D005	MA3X152K0L	DIODE	
D009	MA2C165001VT	DIODE	
D012	MAZ40360MF	DIODE ZENER	
D460	MA2C165001VT	DIODE	
D461	MA2C165001VT	DIODE	
D462	MAZ40300MF	DIODE ZENER	
D463	MA2C165001VT	DIODE	
D465	MAZ40390MF	DIODE ZENER	
D466	MA2C165001VT	DIODE	
D468	MA2C165001VT	DIODE	
D469	MAZ40300MF	DIODE ZENER	
D470	MA2C165001VT	DIODE	
D501	MAZ41500MF	DIODE ZENER	
D502	MAZ41500MF	DIODE ZENER	
D503	B0HALP000007	DIODE FAST RECOVERY	
D506	B0JAME000058	DIODE SCHOTTKY BARR	
D507	B0JAME000058	DIODE SCHOTTKY BARR	
D508	B0HAGV000004	DIODE FAST RECOVERY	
D509	MA2C165001VT	DIODE	
D510	MAZ40820MF	DIODE ZENER	⚠
D511	B0EALV000001	DIODE RECTIFIER	
D513	MAZ42700MF	DIODE ZENER	
D518	MA2C165001VT	DIODE	
D521	MAZ41800MF	DIODE ZENER	
D522	B0AAGR000002	DIODE SWITCHING	
D523	B0HASV000002	DIODE	
D524	MA2C165001VT	DIODE	
D525	B0HALP000007	DIODE FAST RECOVERY	
D528	B0HALP000007	DIODE FAST RECOVERY	
D533	MA2C700A0F	DIODE	
D534	MA2C165001VT	DIODE	
D539	MA2C165001VT	DIODE	
D540	B0HALP000007	DIODE FAST RECOVERY	
D541	B0JAME000058	DIODE SCHOTTKY BARR	
D584	MA2C165001VT	DIODE	
D701	MA2C029TAF	DIODE	
D702	MA2C029TAF	DIODE	
D801	B0FBAT000006	DIODE RECTIFIER	⚠
D804	B0EBKM000023	DIODE RECTIFIER	
D807	MA2C165001VT	DIODE	
D809	ERZV10D391	VARISTOR SURGE ABSORBER	⚠
D811	B0EAKL000008	DIODE RECTIFIER	
D814	MA2C165001VT	DIODE	
D815	MA2C165001VT	DIODE	
D816	MA2C165001VT	DIODE	
D817	MAZ42200LF	DIODE ZENER	
D819	MA2C165001VT	DIODE	
D820	B0HAGM000005	DIODE FAST RECOVERY	
D822	B0HAMM000036	DIODE FAST RECOVERY	
D823	MAZ406800F	DIODE ZENER	
D824	B0BA01000070	DIODE VOLTAGE REGULATOR	
D825	B0HANR000003	DIODE FAST RECOVERY	
D827	B0HANM000038	DIODE FAST RECOVERY	
D828	MA3D690	DIODE	
D829	B0HAMM000124	DIODE	

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D830	MA3D690	DIODE	
D831	MAZ41300MF	DIODE ZENER	
D832	MAZ41100HF	DIODE ZENER	
D833	MA2C165001VT	DIODE	
D834	MAZ40360MF	DIODE ZENER	
D835	MA2C165001VT	DIODE	
D836	MAZ41600MF	DIODE ZENER	
D837	B0HAGV000004	DIODE FAST RECOVERY	
D844	MA2C165001VT	DIODE	
D845	MAZ41500MF	DIODE ZENER	
D850	MA2C165001VT	DIODE	
D857	MA2C165001VT	DIODE	
D859	MA2C165001VT	DIODE	
D861	B0HAKM000005	DIODE FAST RECOVERY	
D862	MA2C165001VT	DIODE	
D863	MAZ43300MF	DIODE ZENER	
D866	B0EAKT000018	DIODE RECTIFIER	
D867	MA2C165001VT	DIODE	
D874	D4EAB3610002	DIODE ZENER	
D875	MA3D690	DIODE	
D876	B0JCME000037	DIODE SCHOTTKY BARR	
D1001	LN81RPH	DIODE	
D1051	MA2C165001VT	DIODE	
D1052	MA2C165001VT	DIODE	
D1401	MA3X152E0L	DIODE	
D1503	MA3X152K0L	DIODE	
D1550	MA2C700A0F	DIODE	
D1555	B0EAKL000008	DIODE RECTIFIER	
D1560	MAZ40360MF	DIODE ZENER	
D2301	MAZ42700MF	DIODE ZENER	
D2302	MAZ42700MF	DIODE ZENER	
D2304	MA3X152K0L	DIODE	
D2305	MA3X152K0L	DIODE	
D2306	MA3X152K0L	DIODE	
D2307	MA3X152K0L	DIODE	
D2309	MAZ42700MF	DIODE ZENER	
D2310	MA3X152K0L	DIODE	
D2311	MA3X152K0L	DIODE	
D2312	MAZ41000LF	DIODE ZENER	
D2315	MA2C165001VT	DIODE	
D2319	MAZ40330MF	DIODE ZENER	
D2451	MA2C165001VT	DIODE	
D2852	B0JCME000037	DIODE SCHOTTKY BARRIER	
D2856	B0JCME000037	DIODE SCHOTTKY BARRIER	
D2858	B0JCME000037	DIODE SCHOTTKY BARRIER	
D2861	B0JAME000058	DIODE SCHOTTKY BARRIER	
D2881	MA2C165001VT	DIODE	
D2882	MA2C165001VT	DIODE	
D2883	MA2C165001VT	DIODE	
D2884	MA2C165001VT	DIODE	
D3301	MAZ31100ML	DIODE ZENER	
D3302	MAZ31100ML	DIODE ZENER	
D3304	MAZ31100ML	DIODE ZENER	
D3306	MAZ31100ML	DIODE ZENER	
D3307	MAZ31100ML	DIODE ZENER	
D3308	MAZ31100ML	DIODE ZENER	
D3309	MAZ31100ML	DIODE ZENER	
D3310	MAZ31100ML	DIODE ZENER	
D3312	MAZ31100ML	DIODE ZENER	

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D3314	MAZ31100ML	DIODE ZENER	
D3316	MAZ31100ML	DIODE ZENER	
D3317	MAZ31100ML	DIODE ZENER	
D3318	MAZ31100ML	DIODE ZENER	
D3319	MAZ31100ML	DIODE ZENER	
D3320	MAZ31100ML	DIODE ZENER	
D3321	MAZ31100ML	DIODE ZENER	
D3322	MAZ31100ML	DIODE ZENER	
D3323	MAZ31100ML	DIODE ZENER	
D3324	MAZ31100ML	DIODE ZENER	
D3325	MAZ31100ML	DIODE ZENER	
D3326	MAZ31100ML	DIODE ZENER	
D3328	MAZ31100ML	DIODE ZENER	
D3329	MAZ31100ML	DIODE ZENER	
D3330	MAZ31100ML	DIODE ZENER	
D3332	CVS20A120MTA	DIODE	
D3334	CVS20A120MTA	DIODE	
D3335	MAZ31100ML	DIODE ZENER	
D3336	MAZ31100ML	DIODE ZENER	
D3403	MAZ31100ML	DIODE ZENER	
D3404	MAZ31100ML	DIODE ZENER	
D3405	MAZ31100ML	DIODE ZENER	
D3406	MAZ31100ML	DIODE ZENER	
D3407	MAZ31100ML	DIODE ZENER	
D3408	MAZ31100ML	DIODE ZENER	
D3409	MAZ31100ML	DIODE ZENER	
D3410	MAZ31100ML	DIODE ZENER	
D3801	MAZ41200MF	DIODE ZENER	
D3802	MAZ41200MF	DIODE ZENER	
D3803	MAZ41200MF	DIODE ZENER	
D3804	B0HALP000007	DIODE FAST RECOVERY	
D3805	B0HALP000007	DIODE FAST RECOVERY	
D3806	B0HALP000007	DIODE FAST RECOVERY	
D3807	B0HALP000007	DIODE FAST RECOVERY	
D3808	B0HALP000007	DIODE FAST RECOVERY	
D3809	B0HALP000007	DIODE FAST RECOVERY	
D3811	D4EAB3610002	DIODE	
D3813	B0HALP000007	DIODE	
RM001	B3RAC0000013	REMOTE CTRL RECEPTOR	
		FUSES	
F801	XBA2A00101F	FUSE	⚠
		INTEGRATED CIRCUITS	
IC002	TVR2AJ218S	IC (EEPROM)	
IC006	C1AB00000441	IC (FOR VIDEO EQUIPMENT)	
IC451	C1AA00000680	IC (FOR VIDEO EQUIPMENT)	
IC501	AN1431T-TA	INT CKT	
IC502	AN5751N	INT CKT	
IC801	C5HABZZ00126	INT CKT	⚠
IC802	C0EAS0000024	IC (VOLTAGE DETECTING)	⚠
IC805	C0DAAZG00014	IC (FOR POWER SUPPLY)	
IC811	CNC1S171R	INT CKT	⚠
IC901	C5AA00000212	INT CKT	
IC1101	MN102H75KND	INT CKT	
IC1401	C0BBBA000022	IC (COMPARATOR)	
IC1501	C0BBBA000022	IC (COMPARATOR)	
IC1502	C0ABBA000168	IC (OPERATIONAL AMPLIFIER)	
IC1503	C0BBBA000022	IC (COMPARATOR)	
IC2201	AN5829S-E1V	INT CKT	
IC2301	TDA8925J	AUDIO AMP IC	

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IC2303	AN6914S-E1V	INT CKT	
IC2305	C0ABBA000168	IC (OPERATIONAL AMPLIFIER)	
IC2451	NJW1164MPTE1	INT. CKT.	
IC2851	C0CACKG00003	IC (VOLTAGE REGULATOR)	
IC2852	C0DAAZG00014	IC (FOR POWER SUPPLY)	
IC2854	C0DAAZG00014	IC (FOR POWER SUPPLY)	
IC2855	C0DAAZG00014	IC (FOR POWER SUPPLY)	
IC2856	C0DAAZG00014	IC (FOR POWER SUPPLY)	
IC3001	C1AB00001991	INT CKT	
IC3002	C1AB00001875	INT CKT	
IC3801	TDA6118JF-N2	INT CKT (VIDEO OUTPUT)	
IC3802	TDA6118JF-N2	INT CKT (VIDEO OUTPUT)	
IC3803	TDA6118JF-N2	INT CKT (VIDEO OUTPUT)	
IC5007	BA15218FDXE2	INT CKT	
		COILS	
L002	TALV35VB330J	COIL	
L009	G0A330GA0024	COIL LINE CHOKE	
L010	TALV35VB180J	COIL	
L452	EXCELDR35V	FERRITE BEAD	
L453	ELC18B152L	COIL CHOKE	
L454	EXCELSA35T	FERRITE BEAD	
L501	EXCELSA24T	FERRITE BEAD	
L502	EXCELSA24T	FERRITE BEAD	
L504	EXCELSA26T	FERRITE BEAD	
L505	EXCELSA26T	FERRITE BEAD	
L509	ELC09D100F	COIL CHOKE 10UH	
L514	EXCELSA35T	FERRITE BEAD	
L515	ELC09D471F	COIL CHOKE 470UH	
L516	ELC09D101F	COIL CHOKE 100UH	
L522	ELC18E121L	COIL CHOKE 120UH	
L553	EXCELSA35T	FERRITE BEAD	
L554	ELH5L8115	COIL LINEARITY	
L812	EXCELSA39E	FERRITE BEAD	
L813	EXCELSA39E	FERRITE BEAD	
L816	EXCELSA39V	FERRITE BEAD	
L817	EXCELSA24T	FERRITE BEAD	
L818	EXCELSA24T	FERRITE BEAD	
L819	EXCELDR35V	FERRITE BEAD	
L821	EXCELSA39V	FERRITE BEAD	
L823	TLUADTB820K	COIL	
L824	EXCELDR35V	FERRITE BEAD	
L825	ELC09D470DF	COIL CHOKE 47UH	
L826	ELC09D101DF	COIL CHOKE 100UH	
L827	ELC09D101DF	COIL CHOKE 100UH	
L829	EXCELDR25V	FERRITE BEAD	
L830	EXCELDR35V	FERRITE BEAD	
L845	G0A101ZA0041	COIL LINE CHOKE	
L846	ELC09D220DF	COIL CHOKE 22UH	
L2201	TALV35VB100J	COIL	
L2304	G0A101ZA0041	COIL LINE CHOKE	
L2305	G0A101ZA0041	COIL LINE CHOKE	
L2854	G0A101ZA0041	COIL LINE CHOKE	
L2855	G0A220GA0002	COIL LINE CHOKE	
L2860	G0A470ZA0041	COIL LINE CHOKE	
L2861	G0A470ZA0041	COIL LINE CHOKE	
L2863	G0A470ZA0041	COIL LINE CHOKE	
L2868	G0A470ZA0041	COIL LINE CHOKE	
L3023	G0BYYYY00016	TRANSFORMER	
L3303	G0BYYYY00016	TRANSFORMER	

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L3401	G0BYYYY00016	TRANSFORMER	
L3403	EXCELSA35T	FERRITE BEAD	
L3804	G0C1R0JA0021	DIODE	
L3805	G0C1R0JA0021	DIODE	
L3806	G0C1R0JA0021	DIODE	
L3809	G0B250D00001	TRANSFORMER	
L3810	G0B250D00001	TRANSFORMER	
L552A	ELH5L7740	COIL LINEARITY	
LF801	G0B650H00002	COIL	
LF802	HF2836622Y3R	LINE FILTER	⚠
LF803	HF2836622Y3R	LINE FILTER	⚠
LF904	G0B800H00001	COIL	
LF2501	G0B800H00001	COIL	
LF2502	G0B800H00001	COIL	
LF3401	TF0402B04P03	LINE FILTER	
		TRANSISTORS	
Q002	B1ABCF000115	TRANSISTOR	
Q003	B1ADCE000009	TRANSISTOR	
Q013	B1ABCF000115	TRANSISTOR	
Q033	B1ABCF000115	TRANSISTOR	
Q034	B1ADCE000009	TRANSISTOR	
Q404	B1ABCF000115	TRANSISTOR	
Q405	B1ABCF000115	TRANSISTOR	
Q406	B1ABCF000115	TRANSISTOR	
Q501	B1CEML000002	TRANSISTOR	
Q511	B1ADCE000009	TRANSISTOR	
Q512	B1ABCF000115	TRANSISTOR	
Q513	B1ABCF000115	TRANSISTOR	
Q514	B1ABCF000115	TRANSISTOR	
Q515	B1ADCE000009	TRANSISTOR	
Q516	B1ABCF000115	TRANSISTOR	
Q517	B1ADCE000009	TRANSISTOR	
Q551	2SC5686000LK	TRANSISTOR	
Q556	B1DAFU000003	TRANSISTOR	
Q560	B1DGDN000001	TRANSISTOR	
Q802	2SC3311A0A	TRANSISTOR	
Q803	2SC3311A0A	TRANSISTOR	
Q815	B1ABCF000115	TRANSISTOR	
Q816	B1ABCF000115	TRANSISTOR	
Q820	2SD21770RA	TRANSISTOR	
Q821	2SB14340RA	TRANSISTOR	
Q822	2SA1309A0A	TRANSISTOR	
Q823	B1ABCF000115	TRANSISTOR	
Q824	2SA1309A0A	TRANSISTOR	
Q825	B1ABCF000115	TRANSISTOR	
Q826	B1ABCF000115	TRANSISTOR	
Q827	2SB1011001TV	TRANSISTOR	
Q831	2SA1309A0A	TRANSISTOR	
Q1401	B1ABCF000115	TRANSISTOR	
Q1501	B1ABCF000115	TRANSISTOR	
Q1502	B1ADCE000009	TRANSISTOR	
Q1504	B1ABCF000115	TRANSISTOR	
Q1505	B1ADCE000009	TRANSISTOR	
Q1511	B1ABCF000115	TRANSISTOR	
Q1512	B1ADCE000009	TRANSISTOR	
Q2301	B1ABCF000115	TRANSISTOR	
Q2302	B1ABCF000115	TRANSISTOR	
Q2303	B1ADCE000009	TRANSISTOR	
Q2304	B1ABCF000115	TRANSISTOR	

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Q2307	B1ADCE000009	TRANSISTOR	
Q2308	B1ABCF000115	TRANSISTOR	
Q2310	B1ADCE000009	TRANSISTOR	
Q2311	B1ADCE000009	TRANSISTOR	
Q2312	B1ABCF000115	TRANSISTOR	
Q2314	B1ADCE000009	TRANSISTOR	
Q2317	B1ABCF000115	TRANSISTOR	
Q2318	B1ABCF000115	TRANSISTOR	
Q2319	B1ABCF000115	TRANSISTOR	
Q2320	B1ABCF000115	TRANSISTOR	
Q2321	B1ABCF000115	TRANSISTOR	
Q2451	B1ABCF000115	TRANSISTOR	
Q2452	B1ABCF000115	TRANSISTOR	
Q2453	B1ABCF000115	TRANSISTOR	
Q2454	B1ABCF000115	TRANSISTOR	
Q2881	B1ADCE000009	TRANSISTOR	
		RELAYS	
RL801	K6B1AGA00043	RELAY	⚠
RL802	K6B2AGA00014	RELAY	⚠
RL803	K6B1AGA00042	RELAY	⚠
RL804	K6B2AGA00014	RELAY	
		RESISTORS	
R032	ERJ6GEYJ333V	RES M 33K-J-1/10W	
R033	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R034	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R035	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R041	ERJ6GEYJ332V	RES M 3.3K-J-1/10W	
R075	ERJ6GEYJ101V	RES M 100-J-1/10W	
R076	ERJ6GEYJ101V	RES M 100-J-1/10W	
R077	ERJ6GEYJ101V	RES M 100-J-1/10W	
R096	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R098	ERJ6GEYJ220V	RES M 22-J-1/10W	
R099	ERJ6GEYJ220V	RES M 22-J-1/10W	
R100	ERJ6GEYJ242V	RES M 2.4K-J-1/10W	
R101	ERJ6GEYJ392V	RES M 3.9K-J-1/10W	
R102	ERJ6GEYJ682V	RES M 6.8K-J-1/10W	
R103	ERJ6GEYJ822V	RES M 8.2K-J-1/10W	
R104	ERJ6GEYJ104V	RES M 100K-J-1/10W	
R105	ERJ6GEYJ471V	RES M 470-J-1/10W	
R106	ERJ6GEYJ471V	RES M 470-J-1/10W	
R108	ERJ6GEYJ101V	RES M 100-J-1/10W	
R109	ERJ6GEYJ101V	RES M 100-J-1/10W	
R110	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R111	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R113	ERJ6GEYJ471V	RES M 470-J-1/10W	
R119	ERDS2TJ680T	RES C 68-J-1/4W	
R122	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R123	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R124	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R125	ERJ6GEYJ101V	RES M 100-J-1/10W	
R126	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R127	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R451	EROS2THF1001	RES M 1K-F-1/4W	
R452	EROS2THF2201	RES M 2.2K-F-1/4W	
R453	ERJ6GEYJ822V	RES M 8.2K-J-1/10W	
R454	ERJ6ENF2202V	RES M 22K-F-1/10W	
R455	ERG2FJ331H	RES M 330-J-2W	
R456	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R457	ERDS1FJ560T	RES C 56-J-1/2W	

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R458	ERDS1FJ4R7P	RES C 4.7-J-1/2W	
R459	ERDS1FJ4R7P	RES C 4.7-J-1/2W	
R461	ERJ6GEYJ272V	RES M 2.7K-J-1/10W	
R462	ERJ6GEYJ563V	RES M 56K-J-1/10W	
R463	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R464	ERDS2TJ102T	RES C 1K-J-1/4W	
R465	ERJ6GEYJ224V	RES M 220K-J-1/10W	
R466	ERDS1FJ4R7P	RES C 4.7-J-1/2W	
R467	ERDS1FJ4R7P	RES C 4.7-J-1/2W	
R468	ERJ6GEYJ272V	RES M 2.7K-J-1/10W	
R469	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R470	ERJ6GEYJ272V	RES M 2.7K-J-1/10W	
R471	ERJ6ENF1802V	RES M 18K-F-1/10W	
R472	ERJ6ENF1501V	RES M 1.5K-F-1/10W	
R473	ERJ6GEYJ272V	RES M 2.7K-J-1/10W	
R474	ERJ6GEYJ563V	RES M 56K-J-1/10W	
R475	ERJ6GEYJ224V	RES M 220K-J-1/10W	
R476	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R501	ERDS2TJ104T	RES C 100K-J-1/4W	
R502	ERG2FJ330H	RES M 33-J-2W	
R503	ERG3FJ221H	RES M 220-J-3W	
R504	ERDS2TJ680T	RES C 68-J-1/4W	
R505	ERG1SJ102P	RES M 1K-J-1W	
R507	ERX2FJR22H	RES M .22-J-2W	
R510	ERG3FJ561H	RES M 560-J-3W	
R513	ERDS2TJ471T	RES C 470-J-1/4W	
R514	EROS2THF2552	RES M 25.5K-F-1/4W	⚠
R515	EROS2THF2552	RES M 25.5K-F-1/4W	⚠
R516	ERDS2TJ101T	RES C 100-J-1/4W	⚠
R517	ERC14GK103V	RES M 10K-J-1W	
R518	ERDS2TJ103T	RES C 10K-J-1/4W	
R519	ERDS2TJ221T	RES C 220-J-1/4W	
R520	EROS2THF2552	RES M 25.5K-F-1/4W	⚠
R521	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R522	ERJ6GEYJ392V	RES M 3.9K-J-1/10W	
R523	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R524	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R525	ERJ6GEYJ182V	RES M 1.8K-J-1/10W	
R526	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R527	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R533	ERDS2TJ102T	RES C 1K-J-1/4W	
R534	ERDS2TJ152T	RES C 1.5K-J-1/4W	
R535	ERDS2TJ472T	RES C 4.7K-J-1/4W	
R536	ERDS2TJ221T	RES C 220-J-1/4W	
R537	ERDS2TJ103T	RES C 10K-J-1/4W	
R538	ERDS2TJ472T	RES C 4.7K-J-1/4W	
R553	ERDS2TJ101T	RES C 100-J-1/4W	
R561	EROS2THF2552	RES M 25.5K-F-1/4W	⚠
R568	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R569	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R572	ERJ6GEYJ104V	RES M 100K-J-1/10W	
R573	ERC14GK101V	RES C 100-K-1/4W	
R574	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R575	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R576	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R577	EROS2THF2703	RES M 270K-F-1/4W	
R578	ERJ6GEYJ331V	RES M 330-J-1/10W	
R579	ERDS2TJ392T	RES C 3.9K-J-1/4W	
R580	ERJ6GEYJ103V	RES M 10K-J-1/10W	

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R581	ERJ6GEYJ101V	RES M 100-J-1/10W	
R582	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R583	ERJ6ENF1501V	RES M 1.5K-F-1/10W	
R584	ERJ6ENF2201V	RES M 2.2K-F-1/10W	
R586	EROS2THF2003	RES M 200K-F-1/4W	
R587	ERJ6GEYJ681V	RES M 680-J-1/10W	
R589	ERJ6GEYJ392V	RES M 3.9K-J-1/10W	
R590	ERJ6GEYJ331V	RES M 330-J-1/10W	
R591	ERDS2TJ100T	RES C 10-J-1/4W	
R592	ERJ6GEYJ332V	RES M 3.3K-J-1/10W	
R593	ERJ6GEYJ152V	RES M 1.5K-J-1/10W	
R594	ERJ6GEYJ332V	RES M 3.3K-J-1/10W	
R595	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R597	ERF5AJ680	RES W 68-J-5W	
R598	ERX12SJR22P	RES M .22-J-1/2W	
R599	ERX12SZJR15P	RES M .15-J-1/2W	
R718	ERG2FJ223H	RESM 22K-J-2W	
R732	EROS2THF6342	RES M 63.4K-F-1/4W	
R733	EROS2THF6342	RES M 63.4K-F-1/4W	
R734	EROS2THF1542	RES M 15.4KF-1/4W	
R735	ERDS1FJ220P	RES C 22-F-1/2W	
R736	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R800	ERU5TCK1R5T	RES F 1.5-K-5W	⚠
R801	ERC14GK824V	RES C 820K-K-1/4W	
R803	ERDS2TJ680T	RES C 68-J-1/4W	
R804	ERDS2TJ101T	RES C 100-J-1/4W	
R806	ERDS2TJ473T	RES C 47K-J-1/4W	
R807	ERDS2TJ820T	RES C 82-J-1/4W	
R808	ERDS2TJ680T	RES C 68-J-1/4W	
R809	ERDS2TJ472T	RES C 4.7K-J-1/4W	
R810	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R811	ERDS2TJ472T	RES C 4.7K-J-1/4W	
R812	ERDS2TJ473T	RES C 47K-J-1/4W	
R814	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R815	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R816	ERD75TAJ825	RES C 8.2MEG-J-3/4W	⚠
R816	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R817	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R818	ERDS2TJ222T	RES C 2.2K-J-1/4W	
R819	ERDS2TJ391T	RES C 390-J-1/4W	
R820	ERJ6GEYJ122V	RES M 1.2K-J-1/10W	
R830	ERDS1FJ330T	RES C 30-J-1/2W	
R831	ERJ6GEYJ101V	RES M 100-J-1/10W	
R832	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R833	ERJ6GEYJ470V	RES M 47-J-1/10W	
R834	ERDS2TJ223T	RES C 22K-J-1/4W	
R835	ERJ6GEYJ154V	RES M 150K-J-1/10W	
R840	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R841	ERQ12HKR22P	RES F .22-K-1/2W	
R842	ERQ12HKR22P	RES F .22-K-1/2W	
R844	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R845	ERDS1FJ222T	RES C 2200-J-1/2W	
R846	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R847	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R848	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R849	ERDS2TJ223T	RES C 22K-J-1/4W	
R850	ERDS2TJ152T	RES C 1.5K-J-1/4W	
R851	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R852	ER050PHF2702	RES M 27-F-1/2W	

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R853	EROS2THF3601	RES M 3.6K-F-1/4W	
R855	ERDS2TJ683T	RES C 68K-J-1/4W	
R856	ERJ6GEYJ123V	RES M 12K-J-1/10W	
R857	ERX1SJ1R0P	RES M 1.0-J-1W	
R858	ERX1SJ1R0P	RES M 1.0-J-1W	
R859	ERDS2TJ272T	RES C 2.7K-J-1/4W	
R860	ERG1SJ102P	RES M 1K-J-1W	
R861	ERX12SJR27P	RES M .27-J-1/2W	
R862	ERX12SJR27P	RES M .27-J-1/2W	
R863	ERX12SJR27P	RES M .27-J-1/2W	
R864	ERJ6GEYJ104V	RES M 100K-J-1/10W	
R865	ERJ6GEYJ332V	RES M 3.3K-J-1/10W	
R866	ERJ6GEYJ561V	RES M 560-J-1/10W	
R867	ERJ6GEYJ122V	RES M 1.2K-J-1/10W	
R868	ERJ6GEYJ104V	RES M 100K-J-1/10W	
R869	ERJ6GEYJ332V	RES M 3.3K-J-1/10W	
R870	ERDS2TJ102T	RES C 1K-J-1/4W	
R872	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R873	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R874	ERDS1FJ390T	RES C 39-J-1/2W	
R875	ERJ6GEYJ332V	RES M 3.3K-J-1/10W	
R876	ERJ6GEYJ104V	RES M 100K-J-1/10W	
R878	ERDS2TJ223T	RES C 22K-J-1/4W	
R879	ERJ6ENF6981V	RES M 6.98K-F-1/10W	
R884	ERX1SJ1R8P	RES M 1.8-J-1W	
R886	ERDS2TJ272T	RES C 2.7K-J-1/4W	
R887	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R888	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R889	ERJ6GEYJ272V	RES M 2.7K-J-1/10W	
R890	ERDS2TJ152T	RES C 1.5K-J-1/4W	
R891	ERG1SJ823P	RES M 82K-J-1W	
R892	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R893	ERDS1FJ332T	RES C 3.3K-F-1/2W	
R894	ERJ6ENF1741V	RES M 1.74K-F-1/10W	
R896	ERC14GK334V	RES C 330K-K-1/4W	
R898	ERJ6GEYJ563V	RES M 56K-J-1/10W	
R899	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R901	ERJ6GEYJ101V	RES M 100-J-1/10W	
R902	ERJ6ENF56R0V	RES M 56.0-F-1/10W	
R904	ERG3FJ221H	RES M 220-J-3W	
R905	ERQ1CJP331S	RES F 330-J-1W	
R1051	ERJ6ENF1002V	RES M 10K-F-1/10W	
R1052	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R1053	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R1054	ERJ6GEYJ332V	RES M 3.3K-J-1/10W	
R1055	ERJ6GEYJ512V	RES M 5.1K-J-1/10W	
R1056	ERJ6GEYJ912V	RES M 9.1K-J-1/10W	
R1057	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R1058	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R1059	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R1060	ERJ6GEYJ470V	RES M 47-J-1/10W	
R1061	ERJ6GEYJ101V	RES M 100-J-1/10W	
R1062	ERJ6GEYJ182V	RES M 1.8K-J-1/10W	
R1064	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R1401	ERJ6ENF3902V	RES M 39K-F-1/10W	
R1402	ERJ6ENF3012V	RES M 30.1K-F-1/16W	
R1403	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R1404	ERJ6ENF8201V	RES M 8.2K-F-1/10W	
R1405	ERJ6ENF9101V	RES M 9.1K-F-1/10W	

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R1406	ERJ6ENF1801V	RES M 1.8K-F-1/10W	
R1407	ERJ6ENF8200V	RES M 820-F-1/10W	
R1408	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R1409	ERDS2TJ473T	RES C 47K-J-1/4W	
R1410	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R1411	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R1507	ERJ6ENF4701V	RES M 4.7K-F-1/10W	
R1508	ERJ6ENF1002V	RES M 10K-F-1/10W	
R1512	ERJ6ENF1002V	RES M 10K-F-1/10W	
R1514	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R1515	ERJ6GEYJ104V	RES M 100K-J-1/10W	
R1518	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R1522	ERJ6GEYJ330V	RES M 33-J-1/10W	
R1523	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R1526	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R1527	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R1529	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R1530	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R1531	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R1534	ERJ6ENF2201V	RES M 2.2K-F-1/10W	
R1536	ERJ6ENF1962V	RES M 19.6K-F-1/10W	
R1537	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R1569	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R1583	ERJ6ENF5761V	RES M 5.76K-F-1/10W	
R1585	ERJ6ENF3651V	RES M 3.65K-F-1/16W	
R1587	ERJ6ENF2202V	RES M 22K-F-1/10W	
R1588	ERJ6GEYJ152V	RES M 1.5K-J-1/10W	
R1591	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R1592	ERJ6GEYJ152V	RES M 1.5K-J-1/10W	
R1593	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R1599	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R2203	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R2206	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R2207	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R2221	ERJ6GEYJ562V	RES M 5.6K-J-1/10W	
R2301	ERJ6GEYJ182V	RES M 1.8K-J-1/10W	
R2303	ERJ6GEYJ182V	RES M 1.8K-J-1/10W	
R2305	ERG1SJ220P	RES M 22-J-1W	
R2306	ERG1SJ220P	RES M 22-J-1W	
R2307	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R2308	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R2309	ERDS2TJ123T	RES C 12K-J-1/4W	
R2322	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R2323	ERJ6GEYJ102V	RES M 1K-J-1/10W	
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R2326	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R2328	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R2329	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R2330	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R2331	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R2332	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R2333	ERJ6GEYJ183V	RES M 18K-J-1/10W	
R2334	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R2335	ERJ6GEYJ271V	RES M 270-J-1/10W	
R2336	ERJ6GEYJ332V	RES M 3.3K-J-1/10W	
R2337	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R2351	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R2352	ERJ6GEYJ103V	RES M 10K-J-1/10W	

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R2353	ERJ6GEYJ183V	RES M 18K-J-1/10W	
R2354	ERJ6GEYJ432V	RES M 4.3K-J-1/10W	
R2355	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R2356	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R2357	ERJ6GEYJ332V	RES M 3.3K-J-1/10W	
R2358	ERJ6GEYJ183V	RES M 18K-J-1/10W	
R2359	ERJ6GEYJ432V	RES M 4.3K-J-1/10W	
R2360	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R2361	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R2362	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R2363	ERDS2TJ102T	RES C 1K-J-1/4W	
R2365	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R2366	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R2367	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R2368	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R2369	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R2370	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R2373	ERJ6GEYJ153V	RES M 15K-J-1/10W	
R2377	ERJ6ENF1272V	RES M 12.7K-F-1/10W	
R2378	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R2379	ERJ6GEYJ203V	RES M 20K-J-1/10W	
R2380	ERJ6GEYJ182V	RES M 1.8K-J-1/10W	
R2381	ERJ6GEYJ154V	RES M 150K-J-1/10W	
R2382	ERJ6ENF1001V	RES M 1K-F-1/10W	
R2383	ERJ6GEYJ332V	RES M 3.3K-J-1/10W	
R2384	ERJ6ENF1100V	RES M 110-F-1/10W	
R2385	ERJ6ENF2002V	RES M 20K-F-1/10W	
R2386	ERJ6GEYJ182V	RES M 1.8K-J-1/10W	
R2387	ERJ6GEYJ154V	RES M 150K-J-1/10W	
R2388	ERJ6ENF1001V	RES M 1K-F-1/10W	
R2389	ERJ6GEYJ332V	RES M 3.3K-J-1/10W	
R2390	ERJ6ENF1100V	RES M 110-F-1/10W	
R2395	ERJ6ENF2002V	RES M 20K-F-1/10W	
R2396	ERDS2TJ182T	RES C 1.8K-J-1/4W	
R2398	ERDS2TJ202T	RES C 2K-J-1/4W	
R2399	ERDS2TJ202T	RES C 2K-J-1/4W	
R2400	ERJ6GEYJ203V	RES M 20K-J-1/10W	
R2403	ERDS2TJ202T	RES C 2K-J-1/4W	
R2405	ERX1SJ5R6P	RES M 5.6-J-1W	
R2406	ERJ6GEYJ393V	RES M 39K-J-1/10W	
R2407	ERX1SJ5R6P	RES M 5.6-J-1W	
R2408	ERJ6GEYJ393V	RES M 39K-J-1/10W	
R2451	ERJ6GEYJ101V	RES M 100-J-1/10W	
R2452	ERJ6GEYJ101V	RES M 100-J-1/10W	
R2453	ERJ6GEYJ681V	RES M 680-J-1/10W	
R2454	ERJ6GEYJ471V	RES M 470-J-1/10W	
R2455	ERDS2TJ123T	RES C 12K-J-1/4W	
R2456	ERJ6GEYJ681V	RES M 680-J-1/10W	
R2457	ERJ6GEYJ471V	RES M 470-J-1/10W	
R2463	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R2464	ERJ6GEYJ562V	RES M 5.6K-J-1/10W	
R2465	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R2466	ERJ6GEYJ562V	RES M 5.6K-J-1/10W	
R2467	ERDS2TJ222T	RES C 2.2K-J-1/4W	
R2851	ERX2SJS1R3H	RES M 1.3-J-2W	
R2852	ERJ6ENF1202V	RES.M 1.2K-F-1/10W	
R2853	ERJ6ENF1911V	RES M 1.91K-F-1/10W	
R2854	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R2856	ERJ6ENF1691V	RES M 1.69K-F-1/10W	

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R2857	ERJ6ENF1001V	RES M 1K-F-1/10W	
R2858	ERJ6ENF1691V	RES M 1.69K-F-1/10W	
R2859	ERJ6ENF1651V	RES M 1.65K-F-1/10W	
R2862	ERJ6ENF3001V	RES M 3K-F-1/10W	
R2863	ERJ6ENF1021V	RES M 1.02K-F-1/10W	
R2883	ERJ6GEYJ104V	RES M 100K-J-1/10W	
R2885	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R2886	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R3301	ERJ6GEYJ184V	RES M 180K-J-1/10W	
R3302	ERJ6GEYJ184V	RES M 180K-J-1/10W	
R3303	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3304	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3305	ERJ6GEYJ184V	RES M 180K-J-1/10W	
R3306	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3307	ERJ6GEYJ184V	RES M 180K-J-1/10W	
R3308	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3309	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3310	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3311	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3312	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3313	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3314	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R3315	ERJ6GEYJ184V	RES M 180K-J-1/10W	
R3316	ERJ6GEYJ184V	RES M 180K-J-1/10W	
R3317	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3318	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3319	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3320	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R3321	ERJ6GEYJ184V	RES M 180K-J-1/10W	
R3322	ERJ6GEYJ184V	RES M 180K-J-1/10W	
R3323	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3324	ERJ6GEYJ184V	RES M 180K-J-1/10W	
R3326	ERJ6GEYJ184V	RES M 180K-J-1/10W	
R3327	ERJ6GEYJ184V	RES M 180K-J-1/10W	
R3328	ERJ6GEYJ184V	RES M 180K-J-1/10W	
R3403	ERJ6GEYJ224V	RES M 220K-J-1/10W	
R3404	ERJ6GEYJ224V	RES M 220K-J-1/10W	
R3801	ERJ6ENF1000V	RES M 100-F-1/10W	
R3802	ERJ6ENF1000V	RES M 100-F-1/10W	
R3803	ERJ6ENF1000V	RES M 100-F-1/10W	
R3804	ERDS2TJ101T	RES C 100-J-1/4W	
R3805	ERDS2TJ101T	RES C 100-J-1/4W	
R3806	ERDS2TJ101T	RES C 100-J-1/4W	
R3807	ERC12GK821D	RES C 820-K-1/2W	
R3808	ERC12GK821D	RES C 820-K-1/2W	
R3809	ERC12GK821D	RES C 820-K-1/2W	
R3810	ERDS2TJ102T	RES C 1K-J-1/4W	
R3811	ERDS2TJ102T	RES C 1K-J-1/4W	
R3812	ERDS2TJ102T	RES C 1K-J-1/4W	
		SWITCHES	
S801	N9ZZ00000284	SPARK GAP	⚠
S802	N9ZZ00000284	SPARK GAP	⚠
S803	N9ZZ00000284	SPARK GAP	⚠
S804	N9ZZ00000284	SPARK GAP	⚠
SW001	TSE2AD002	SWITCH PUSH	
SW002	EVQPBD05R	SERVICE SWITCH	
SW003	EVQPBD05R	SERVICE SWITCH	
SW004	EVQPBD05R	SERVICE SWITCH	
SW005	EVQPBD05R	SERVICE SWITCH	

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SW006	EVQPBD05R	SERVICE SWITCH	
SW007	EVQPBD05R	SERVICE SWITCH	
		TRANSFORMERS	
T501	ETH19K207AZ	TRANSFORMER	
T550	G4E1A0000011	TRANSFORMER	
T551	ZTFN95005A	TRANSFORMER FLYBACK	⚠
T553	ETS28AU319AD	CHOKE COIL	
T801	ETS42AU185AD	TRANSFORMER	⚠
T802	ETP28KBZA1ZG	TRANSFORMER	⚠
		OTHERS	
TU001	ENG36A10GLF	TUNER	⚠
M001	0FMK014ZZ	MAGNET PERMALLOY	
1	A68QCP693X	CRT	⚠
2	EAS15S14B	6 OHM SPEAKER	
M002	TBMA163	PANASONIC BADGE	
M003	TKP2AA1551	LED BRACKET	
M004	TKP2AA1581	SAFETY COVER	
3	TKP2AA1591	GUIDE IR	
4	TLY2AA046	DEFLECTION YOKE	⚠
M005	TMM2A30702	WEDGE YOKE	
M006	TP-13000PX11	CONVERGENCE YOKE	
M007	TSN63115-4	MAGNET PURITY	
5	TSP2AA031	COIL DEGAUSSING	⚠
M008	TSX2AA0411	LINE CORD	⚠
M009	TXF3A01EA4	ASSY GROUND CABLE	
M010	TXFKP05NSER	ASSY SPEAKER BRACKET	
M011	TXFKP22JSER	ASSY AV BRACKET	
6	TXFKU02NSER	ASSY CABINET BACK	
7	TXFKY11NSER	ASSY CABINET FRONT	
8	TKP2AA1562S	ASSY FRONT DOOR	
M012	TXFBX01NSER	ASSY BUTTON POWER	
JK3301	TJB2AA0521	TERMINAL A/V	
JK3401	TJB2AA0571	TERMINAL A/V	
JK3302A	TJB2AA0532	TERMINAL A/V	
SC3802	TJS2AC00401	SOCKET CRT	⚠
DG1	TJSF17350	CONNECTOR	
DG3	TJSF17435	CONNECTOR	
DG4	K1KA65B00003	CONNECTOR	
DG5	K1KA08A00179	CONNECTOR	
JK5001	K1FA119E0001	CONNECTOR	
		ACCESSORIES	
M013	TQB2AA0531	OWNERS MANUAL	
M014	EUR7613ZC0	TRANSMITTER REMOTE	
M015	UR76EC0303E	BATTERY COVER REMOTE CTRL	

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